

System and Method for Controlling Line Driver Power in a Shared Digital Subscriber Line Modem

ABSTRACT

A shared digital subscriber line modem achieves reduced total power
consumption and data security by generating and transmitting a physical data frame
which includes a control channel and a data field to only the connected client
modem associated with the intended recipient. A second physical frame which does
not include the data field is generated and transmitted to all of the other connected
client modems. This method results in a reduction in the power required and
provides improved data security by preventing data access to non-addressed client
modems.